



Abstract

The Effect of Strabismus Surgery on Refractive Error Measured with Corneal Topography

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This study was prospectively performed to assess the corneal refractive changes after strabismus surgery. Seventy patients who were average 12.56 years old were enrolled and the corneal refractive power was measured with corneal topography system(Videokeratoscope, Eye Sys TM laboratories).

The postoperative corneal refractive changes were not observed at apex, 3 mm zone and 5mm zone in all the patients, but the corneal refractive power increased at 5mm zone for one week only in resection and recession surgery group. The corneal refractive changes according to the amount of surgery were not observed, but the significant correlation was noted at apex and 3mm

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zone for one week, while at 5mm zone for 8weeks in horizontal muscle recession surgery group

The corneal refractive changes after strabismus surgery were noted at the peripheral cornea and especially in resection and recession surgery group. Further studies of this subject including more patients of various operation methods are expected(J Korean Ophthalmol Soc 41:500~505, 2000).

Key Words : Corneal topography, Refractive change, Strabismus surgery

